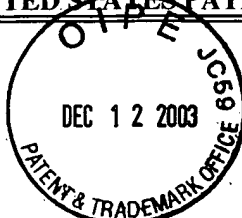


**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants:	SCHMIDT et al.	Group Art Unit:	1764
Serial No.:	10/620,183	Examiner:	Unknown
Filed:	July 15, 2003	Docket No.:	110.02090101
Title:	CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS		
		Confirmation No.:	8654



Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

- ☒ An itemized return postcard.
- ☐ A Petition for Extension of Time for \_\_ month(s) and a check in the amount of \$\_\_ for the required fee.
- ☒ An Information Disclosure Statement (2 pgs); copy of 1 application; 1449 forms (6 pgs); and copies of 86 documents cited on the 1449 forms.
- ☐ A check in the amount of \$\_\_, for \_\_.
- ☐ A certified copy of a \_\_ application, Serial No. \_\_, filed \_\_\_\_, the right of priority of which is claimed under 35 U.S.C. §119.
- ☐ Other:
- ☐ Amendment ☐ No Additional fee is required. ☐ The fee has been calculated as shown:

Fee Calculation for Claims Pending After Amendment					
	Pending Claims after Amendment (1)	Claims Paid for Earlier (2)	Number of Additional Claims (1-2)	Cost per Additional Claim	Additional Fees Required
Total Claims				x \$18 =	
Independent Claims				x \$84 =	
One or More New Multiple Dependent Claims Presented? If Yes, Add \$280 Here →					
Total Additional Claim Fees Required					

Please consider this a **PETITION FOR EXTENSION OF TIME** for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

**CERTIFICATE UNDER 37 C.F.R. §1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper(s), as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 10<sup>th</sup> day of December, 2003.

MUETING, RAASCH & GEBHARDT, P.A.  
Customer Number: 26813

By:   
Kathleen L. Franklin  
Reg. No.: 47,574  
Direct Dial: 612-305-1873  
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(LARGE ENTITY TRANSMITTAL UNDER RULE 1.8)



PATENT  
Docket No. 110.02090101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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		)		
Serial No.:	10/620,183	)	Examiner:	Unknown
Confirmation No.:	8654	)		
		)		
Filed:	July 15, 2003	)		
		)		
For:	<u>CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS</u>			

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Per M.P.E.P. § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants also wish to bring the Examiner's attention to the following pending U.S. Application, as well as any documents and any provisional U.S. patent applications referenced therein. A copy of each of the below-listed pending U.S. Patent Application is provided herewith.

**Information Disclosure Statement**

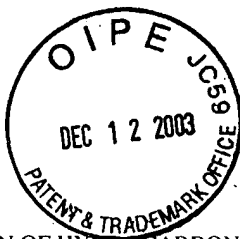
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Serial No.: 10/620,183

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Filed: July 15, 2003

For: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS



Page 2 of 2

**List of Pending Non-Published U.S. Patent Applications**

Applicant(s)	Application Number	Filing Date
Deluga et al.	10/676,324	09/30/03

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

**CERTIFICATE UNDER 37 C.F.R. 1.8:**

The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 10<sup>th</sup> day of December, 2003.

  
Kathleen L. Franklin

Respectfully submitted for

SCHMIDT et al.

By

Muetting, Raasch & Gebhardt, P.A.

P.O. Box 581415

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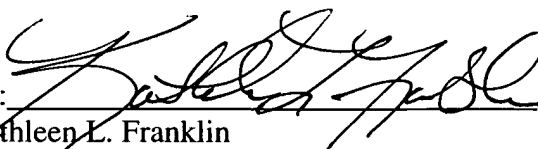
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**Customer Number 26813**

10 December 2003  
Date

AMM/KLF/skd

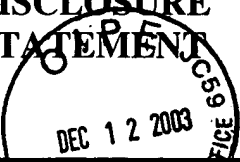
By:   
Kathleen L. Franklin  
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	Application Filing Date: July 15, 2003	Group: 1764
	Information Disclosure Statement mailed: 12/10/03	

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	3,900,646	08/19/75	Clyde			
	3,957,685	05/18/76	Heide et al.			
	3,998,758	12/21/76	Clyde			
	4,088,607	05/09/78	Weidenbach et al.			
	4,251,239	02/17/81	Clyde et al.			
	4,253,302	03/03/81	Asano et al.			
	4,308,233	12/29/81	Narumiya et al.			
	4,568,595	02/04/86	Morris			
	4,810,685	03/07/89	Twigg et al.			
	4,863,712	09/05/89	Twigg et al.			
	4,940,826	07/10/90	Font Freide et al.			
	5,105,052	04/14/92	Font Freide et al.			
	5,221,464	06/22/93	Durante et al.			
	5,382,741	01/17/95	Astbury et al.			
	5,500,149	03/19/96	Green et al.			
	5,593,935	01/14/97	Golunski et al.			
	5,597,771	01/28/97	Hu et al.			
	5,639,929	06/17/97	Bharadwaj et al.			
	5,648,582	07/15/97	Schmidt et al.			
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	5,856,585	01/05/99	Sanfilippo et al.			
	5,905,180	05/18/99	Yokoyama et al.			
	5,980,731	11/09/99	Kao et al.			

<b>EXAMINER</b>	<b>Date Considered</b>
<p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	


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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	6,072,097	06/06/00	Yokoyama et al.			
	6,083,425	07/04/00	Clawson et al.			
	6,123,913	09/26/00	Clawson et al.			
	6,126,908	10/03/00	Clawson et al.			
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	6,254,807 B1	07/03/01	Schmidt et al.			
	6,254,839 B1	07/03/01	Clawson et al.			
	6,387,554 B1	05/14/02	Verykios			
	6,407,301 B1	06/18/02	Foley et al.			
	6,444,867 B1	09/03/02	Samsel et al.			
	6,452,061 B1	09/17/02	Schmidt et al.			
	6,605,376 B2	08/12/03	Verykios			
	US 2001/0009653 A1	07/26/01	Clawson et al.			

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	0576096 A2	12/29/93	EP				
	0640559 A1	03/01/95	EP				
	1,067,957	05/10/67	GB				
	FR 1,379,027	11/20/64	FR (abstract only)				
	JP 2001-080904	03/27/01	JP (English language abstract included)				

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	JP 2001-089108	04/03/01	JP (English language abstract included)				
	WO 98/08771	03/05/98	WIPO				
	WO 99/61369	12/02/99	WIPO				

### OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Document Description
	Aupretre et al., "Le vaporeformage catalytique: Application a la production embarquee d'hydrogene a partir d'hydrocarbures ou d'alcools," <i>Ann. Chim. Sci. Mat.</i> , 2001, 26(4):93-106 (with English language abstract).
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	Brown, "A comparative study of fuels for on-board hydrogen production for fuel-cell-powered automobiles," <i>Int. J. Hydrogen Energy</i> , 2001, 26:381-397.
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	Cavallaro et al., "Ethanol steam reforming in a molten carbonate fuel cell. A preliminary kinetic investigation," <i>Int. J. Hydrogen Energy</i> , 1996; 21(6):465-469.
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	Chornet et al., "Harnessing hydrogen," <i>Nature</i> , 29 Aug. 2002; 418:928-929.
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Examiner Initial	Document Description
	Fatsikostas et al., "Steam reforming of biomass-derived ethanol for the production of hydrogen for fuel cell applications," <i>Chem. Comm.</i> , 2001; 851-852.
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	Hickman et al., "Synthesis gas formation by direct oxidation of methane over Pt monoliths," <i>Journal of Catalysis</i> , 1992; 138:267-82.
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	Ioannides, "Thermodynamic analysis of ethanol processors for fuel cell applications," <i>Journal of Power Sources</i> , 2001, 92:17-25.

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Examiner Initial	Document Description
	Klein et al., "Catalytic partial oxidation of methane to syngas: staged and stratified reactors with steam addition," <i>Stud. Surf. Sci. Catal.</i> , Natural Gas Conversion VI, Proceedings of the Sixth Natural Gas Conversion Symposium, Alaska, 17-22 June 2001; 136:245-250 (2001).
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	Pestryakov et al., "Physicochemical study of active sites of metal catalysts for alcohol partial oxidation," <i>Journal of Molecular Catalysis A: Chemical</i> , 2000; 158:325-329.
	Rampe et al., "Hydrogen generation from biogenic and fossil fuels by autothermal reforming," <i>Journal of Power Sources</i> , 2000; 86:536-541.

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Examiner Initial	Document Description
	Tamman, "Zur Rekristallisation von Metallen und Salzen," <i>Anorg. Allg. Chem.</i> , 1923; 126:119-128.
	Traxel et al., "Partial Oxidation of methanol at millisecond contact times," <i>Applied Catalysis A: General</i> , 2003; 244:129-140.
	Vasudeva et al., "Steam reforming of ethanol for hydrogen production: thermodynamic analysis," <i>Int. J. Hydrogen Energy</i> , 1996; 21(1):13-18.
	Vickers et al., "PLOT Column Considerations for the Gas Chromatographic Analysis of Ozone Precursors," <i>J&amp;W Scientific</i> , Aug. 1998:9 pgs.
	Wang et al., "Study on the partial oxidation of ethanol to hydrogen in the presence of Ni-Fe catalyst," <i>Wuui Huaxue Xuebao (Acta Physico-Chimica Sinica)</i> , 2002, 18(5):426-431; with English language abstract and translation, 12 pgs.

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